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Wiltec 50741

Wiltec Small Lifting Unit 3/1 600W with Macerator

Model: 50741

1. Introduction

The Wiltec Small Lifting Unit 3/1 600W with Macerator is engineered for efficient and reliable wastewater disposal from various sanitary fixtures, including WCs, showers, and sinks. This compact unit features a powerful 600W motor and a robust macerator system, capable of pumping wastewater up to 10 meters vertically and 100 meters horizontally. Its versatile design with three inlets allows for flexible installation in areas where gravity drainage is not feasible, providing a practical solution for basement bathrooms, extensions, or remote installations.

This manual provides essential information for the safe installation, operation, and maintenance of your Wiltec lifting unit. Please read it thoroughly before use and retain it for future reference.

2. Safety Instructions

Always observe the following safety precautions to prevent injury and damage to the unit:

- Installation must be performed by a qualified professional in accordance with local plumbing and electrical codes.
- Ensure the power supply matches the unit's specifications (230V, 50Hz).
- Do not operate the unit if the power cord or plug is damaged.
- Never immerse the unit in water.
- Do not dispose of foreign objects (e.g., sanitary products, wet wipes, large food scraps, chemicals, solvents, oils, or grease) into the connected fixtures, as this can damage the macerator and void the warranty.
- Disconnect the power supply before performing any maintenance, cleaning, or troubleshooting.
- Keep children and unauthorized persons away from the unit during operation.
- The unit is designed for domestic wastewater only.

3. Components

The Wiltec lifting unit comes with all necessary components for standard installation. Please verify that all parts are present and undamaged upon unpacking.



Figure 3.1: Wiltec 3-in-1 600W lifting unit with macerator and included accessories.



Figure 3.2: Detailed view of included components.

- 1x Pump with Macerator
- 2x Non-return Valves
- 1x WC Inlet Cap
- 2x Sanitary Inlet Caps
- 7x Hose Clamps (Ø 32-60 mm)
- 1x Hose Clamp (Ø 90-120 mm)
- 1x Set of Rubber Feet

4. Setup and Installation

Proper installation is crucial for the optimal performance and longevity of your lifting unit. Refer to the diagrams for guidance.

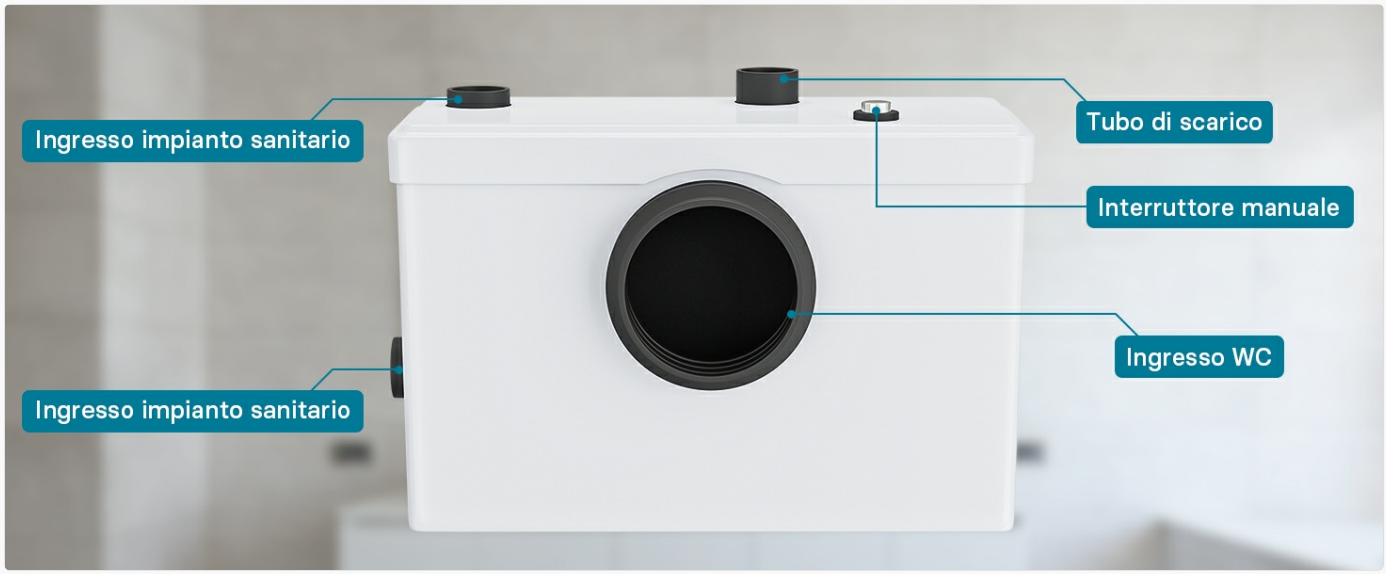


Figure 4.1: Unit inlets and outlets.



Figure 4.2: Installation options (exposed vs. hidden pipes).

1. **Unpacking and Inspection:** Carefully remove the unit from its packaging. Inspect for any signs of damage during transit.
2. **Placement:** Position the lifting unit on a flat, stable surface near the sanitary fixtures it will serve. Ensure adequate space for ventilation and maintenance access. The unit should be installed in a dry, frost-free environment.
3. **Connecting Inlets:**
    - Connect the WC outlet pipe (Ø 100 mm) to the main inlet on the front of the unit. Secure with the large hose clamp.
    - Connect additional sanitary fixtures (shower, sink, bidet) to the two side inlets (Ø 40 mm). Use the smaller hose clamps to secure connections.
    - Cap any unused inlets with the provided caps to prevent leaks and odors.
4. **Connecting Discharge Pipe:** Connect the discharge pipe (Ø 40 mm) to the top outlet of the unit. Ensure the non-return valve is installed correctly in the discharge line to prevent backflow. The discharge pipe should rise vertically from the unit before turning horizontally, if necessary.

5. **Ventilation:** Ensure proper ventilation for the unit. The unit has a built-in air vent.
6. **Electrical Connection:** Connect the unit to a grounded electrical outlet (230V, 50Hz) with a dedicated circuit breaker. Do not use extension cords.
7. **Testing:** After all connections are secure, slowly fill the connected fixtures with water to test for leaks and proper operation. The unit should activate automatically when the water level rises and pump out the wastewater.

5. Operating Instructions

The Wiltec lifting unit operates automatically once properly installed and connected to power.



Figure 5.1: Wastewater flow diagram.



Figure 5.2: 600W motor and manual switch.

- **Automatic Operation:** The unit is equipped with a pressure switch that detects the water level inside the tank. When the water reaches a certain level, the pump automatically starts, activates the macerator (if applicable), and discharges the wastewater. Once the water level drops, the pump will stop.
- **Manual Override:** A manual switch is located on the top of the unit. Pressing this switch will manually activate the pump to empty the collection tank. This feature is useful for testing or in specific maintenance scenarios.
- **Macerator Function:** The integrated macerator blades (stainless steel) finely shred solid waste from the WC, allowing it to be pumped through smaller diameter pipes.
- **High Temperature Resistance:** The unit can handle wastewater up to 90°C for short periods (max 30 minutes), making it suitable for hot water discharge from showers or sinks.



Figure 5.3: Stainless steel macerator blades.



Figure 5.4: High temperature resistance.

6. Maintenance

Regular maintenance ensures the long-term efficiency and reliability of your Wiltec lifting unit.

- **Power Disconnection:** Always disconnect the unit from the power supply before any maintenance or cleaning.
- **Regular Cleaning:** Periodically clean the exterior of the unit with a damp cloth. Do not use abrasive cleaners or solvents.
- **Internal Cleaning/Descaling:** To prevent limescale buildup and maintain optimal performance, it is recommended to periodically descale the unit. Use a non-corrosive descaling agent specifically designed for macerating units. Follow the descaling product's instructions carefully.
- **Check for Blockages:** If the unit's performance decreases or it makes unusual noises, check for potential blockages in the inlets or the macerator chamber. This should only be done after disconnecting power and ensuring the unit is empty.
- **Inspect Connections:** Periodically check all pipe connections and hose clamps for tightness to prevent leaks.

7. Troubleshooting

Before contacting customer support, please refer to the following troubleshooting guide for common issues:

Problem	Possible Cause	Solution
Unit does not start	No power supply; tripped circuit breaker; faulty wiring.	Check power connection; reset circuit breaker; consult a qualified electrician.
Unit runs continuously or frequently	Non-return valve faulty; leak in discharge pipe; pressure switch issue.	Inspect/replace non-return valve; check for leaks; contact support.
Poor drainage or unit clogged	Blockage in macerator or pipes; excessive foreign objects.	Disconnect power, clear blockages (if accessible); perform descaling. Avoid flushing inappropriate items.
Unusual noise during operation	Foreign object in macerator; motor issue.	Disconnect power, check for foreign objects; if noise persists, contact support.
Leaks from connections	Loose hose clamps; damaged seals.	Tighten hose clamps; inspect and replace seals if necessary.

If the problem persists after attempting these solutions, please contact Wiltec customer support.

8. Specifications

Technical data for the Wiltec Small Lifting Unit 3/1 600W with Macerator:



Figure 8.1: Technical Specifications.

Feature	Specification
Power Consumption	600 W
Voltage	220-240 V / 50 Hz

Feature	Specification
Max. Pumping Capacity	240 Liters per minute
Max. Water Temperature	90°C (for 30 minutes)
Max. Discharge Distance	100 meters (horizontal)
Max. Lift Height	10 meters (vertical)
WC Inlet Pipe	1 x Ø 100 mm
Sanitary Inlet Pipes	2 x Ø 40 mm
Discharge Pipe	Ø 40 mm
Protection Class	IPX4
Dimensions (L x W x H)	401 x 180 x 270 mm
Weight	7.86 kg

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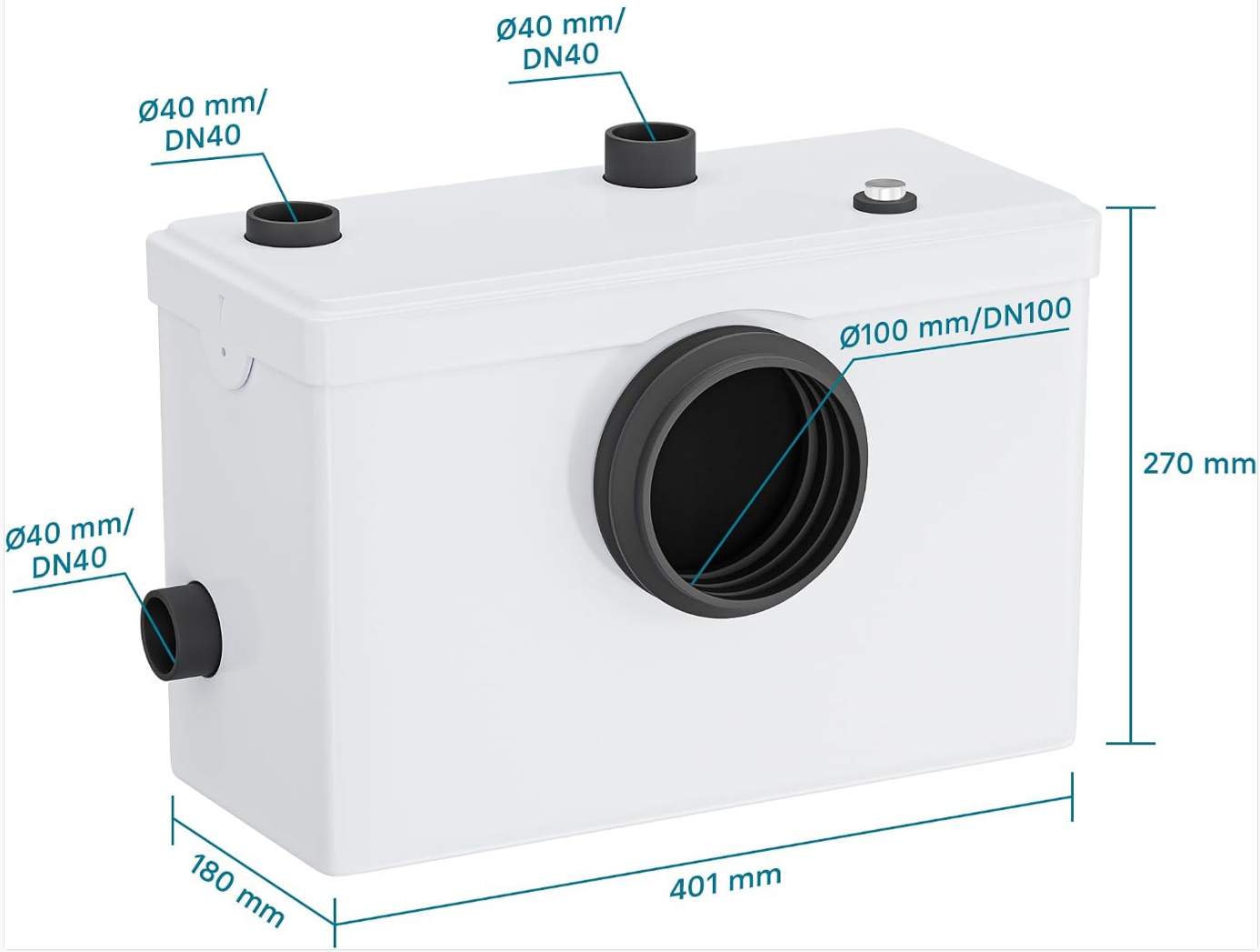


Figure 8.2: Product Dimensions.

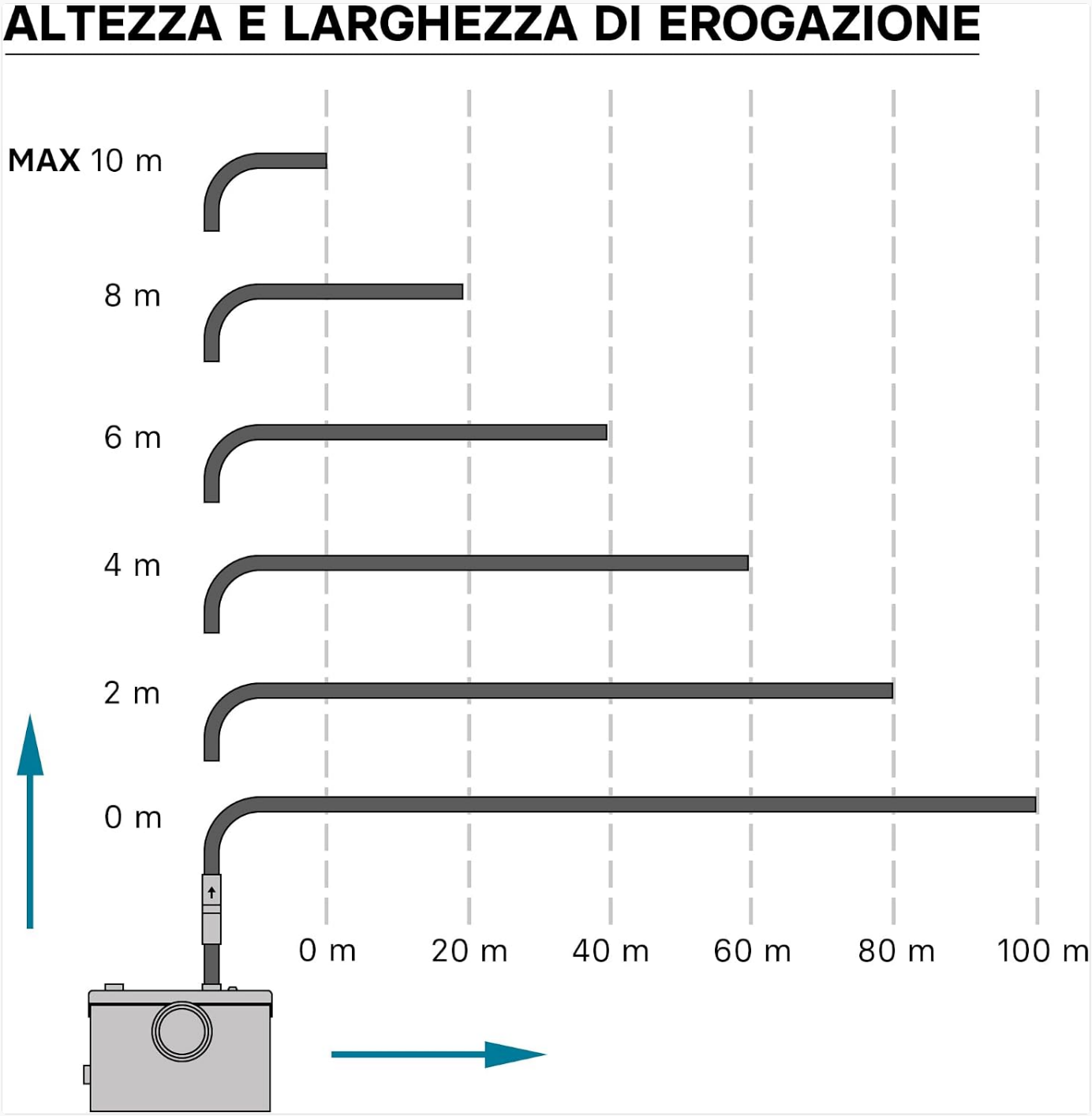


Figure 8.3: Discharge Height and Distance Capabilities.

9. Warranty and Support

Wiltec products are manufactured to high-quality standards and are covered by a manufacturer's warranty against defects in materials and workmanship. Please refer to your purchase documentation for specific warranty terms and conditions.

For technical assistance, spare parts, or warranty claims, please contact Wiltec customer support. When contacting support, please have your product model number (50741) and proof of purchase readily available.

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